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<b>Course Name:</b> Web Applications Design	<b>Teacher's Name:</b> Alan Ricardo Sánchez Maya
<b>Module:</b> 1. Planning and basic concepts	<b>Activity:</b> Evidence 1
<b>Date:</b> February 25th, 2023	
<b>References:</b> <ul style="list-style-type: none"> <li>Universidad Tecmilenio. (2023). Module 1. Planning and basic concepts. Web Application Design. Canvas. Retrieved from: <a href="https://cursos.tecmilenio.mx/courses/128198">https://cursos.tecmilenio.mx/courses/128198</a></li> </ul>	

## OBJECTIVE

To develop a webpage solution oriented to a construction enterprise, in order to automate its internal processes.

## PROCEDURE

“Halcon” is a construction material distributor that requires a web application to automate its internal processes. After an interview, the client's needs are as follows:

A web application that allows their customers to see the status of their orders from a main screen where the customer enters a **customer number**, and an **invoice number**. The information to be displayed is the status and, in case of having a status

of "Delivered", show the photo of the evidence that it was delivered. The **statuses** are as follows:

- **Ordered:** when a material is ordered, and the sales executive enters it into the system.
- **In process:** when the order is in stock, and is being prepared to go on route or, failing that, when it is not in stock and must be purchased from an external supplier.
- **In route:** when the order has been routed for distribution.
- **Delivered:** when the order has been delivered to the customer's premises.

The personnel working in the company can access an administrative Dashboard to carry out their respective activities. This requires the following:

- That the system brings by default an administrative user, which will be able to register new users and assign roles to the users.
- The roles are the departments (important: customers will not be able to register):
  - **Sales:** those in charge of taking orders from customers.
  - **Purchasing:** in case of not having any material, these are the users who manage the purchase of materials.
  - **Warehouse:** who manage the warehouse and prepare the orders for routing, they also inform Purchasing about non-existent or low stock materials.
  - **Route:** who oversee distributing orders to customers.
- The life cycle of an order is respected:

1. A customer calls the company to place an order.
2. The salesperson takes the order and assigns a new entry to the platform, which must contain the following:
  - Consecutive **invoice number** to which the order will correspond.
  - **Name or company name** of the customer placing the order.
  - **A unique customer number** to be assigned arbitrarily.

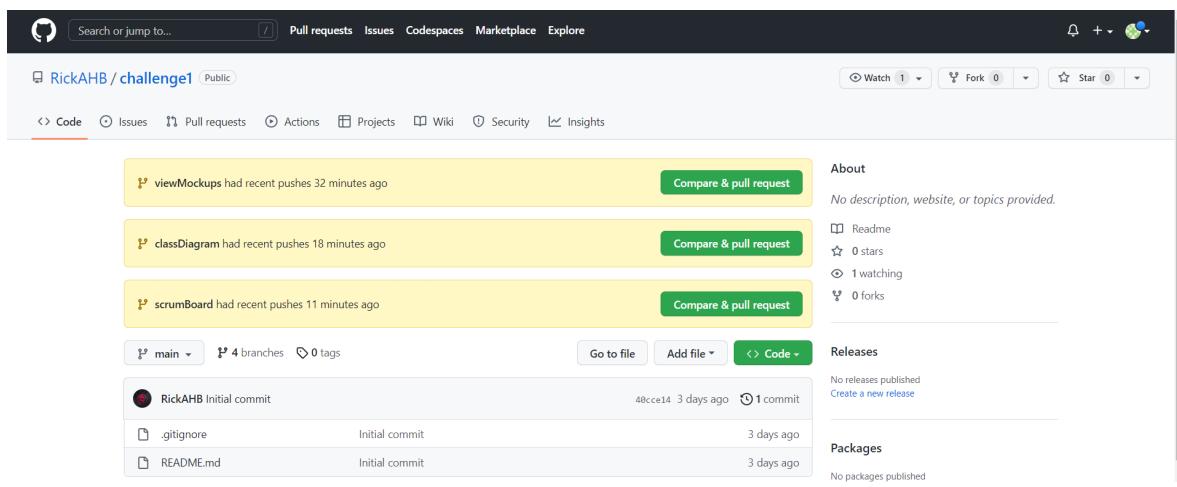
- **Fiscal data of the client** for the filling of the physical invoice that later will be sent by email (the application will not send invoices, each order is linked with an invoice number, but a person of administration oversees making the invoices separately).
  - **Date and time** of the order.
  - **Delivery address** of the order
  - A field to enter any notes or extra information.
3. The default status that the order acquires after it is raised is "**Ordered**" at that time the order should be visible to all employees of the company.
  4. A warehouse person should take care of the order and change its status to "**In process**". Once he/she has finished gathering the materials (internal warehouse or by arranging with purchasing the acquisition of the missing product), he/she changes the status to "**In route**" and, in turn, physically loads a unit together with the carrier.
  5. **The person on the route must take a photo of the loaded unit and upload it to the platform** (consider that the upload photo option should only be visible to people in the Route department).
  6. Upon delivery, the operator **must take another photo of the unloaded material and upload it to the platform** as evidence of delivery.
  7. Once the material is delivered, the status changes to "Delivered".
    - A screen where **all orders are listed**, with the possibility to search for orders by **Invoice Number, Customer Number, Date or Status**.
    - When an order is accessed, it can be modified or deleted logically, it is not deleted from the database, but a status is set so that it is not displayed together with the other orders.
    - A screen where the deleted orders are displayed, with the possibility to edit and restore them.

## RESULTS

### GitHub Repository

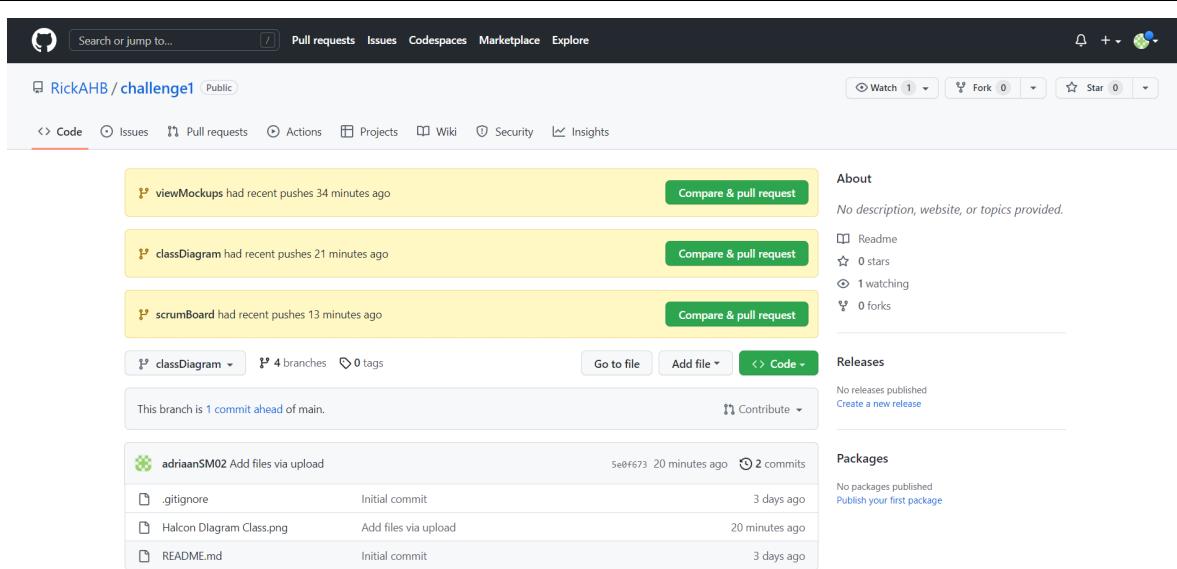
<https://github.com/RickAHB/challenge1/tree/main>

*Main Branch*



The screenshot shows the GitHub repository page for 'RickAHB / challenge1'. The 'Code' tab is selected. Recent pushes are listed: 'viewMockups' (32 minutes ago), 'classDiagram' (18 minutes ago), and 'scrumBoard' (11 minutes ago). The commit history includes 'RickAHB Initial commit' (40cce14, 3 days ago) and files '.gitignore' and 'README.md' (Initial commit, 3 days ago). The repository has 1 commit, 0 stars, and 0 forks.

*classDiagram Branch*



The screenshot shows the GitHub repository page for 'RickAHB / challenge1' on the 'classDiagram' branch. Recent pushes are listed: 'viewMockups' (34 minutes ago), 'classDiagram' (21 minutes ago), and 'scrumBoard' (13 minutes ago). The commit history includes 'adriaanSM02 Add files via upload' (5eef673, 20 minutes ago) and files '.gitignore', 'Halcon Diagram Class.png', and 'README.md' (Initial commit, 3 days ago). The repository has 2 commits, 0 stars, and 0 forks. A note indicates this branch is 1 commit ahead of the main branch.

*scrumBoard Branch*

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**viewMockups** had recent pushes 35 minutes ago [Compare & pull request](#)

**classDiagram** had recent pushes 21 minutes ago [Compare & pull request](#)

**scrumBoard** had recent pushes 14 minutes ago [Compare & pull request](#)

**scrumBoard** [4 branches](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is 3 commits ahead of main. [Contribute](#)

**adriaanSM02** Add files via upload [8a230ff](#) 13 minutes ago [4 commits](#)

<a href="#">.gitignore</a>	Initial commit	3 days ago
<a href="#">Members Trello SCRUM BOARD.png</a>	Add files via upload	16 minutes ago
<a href="#">README.md</a>	Initial commit	3 days ago
<a href="#">SCRUM Board Trello.png</a>	Add files via upload	13 minutes ago

## viewMockups Branch

**classDiagram** had recent pushes 22 minutes ago [Compare & pull request](#)

**scrumBoard** had recent pushes 14 minutes ago [Compare & pull request](#)

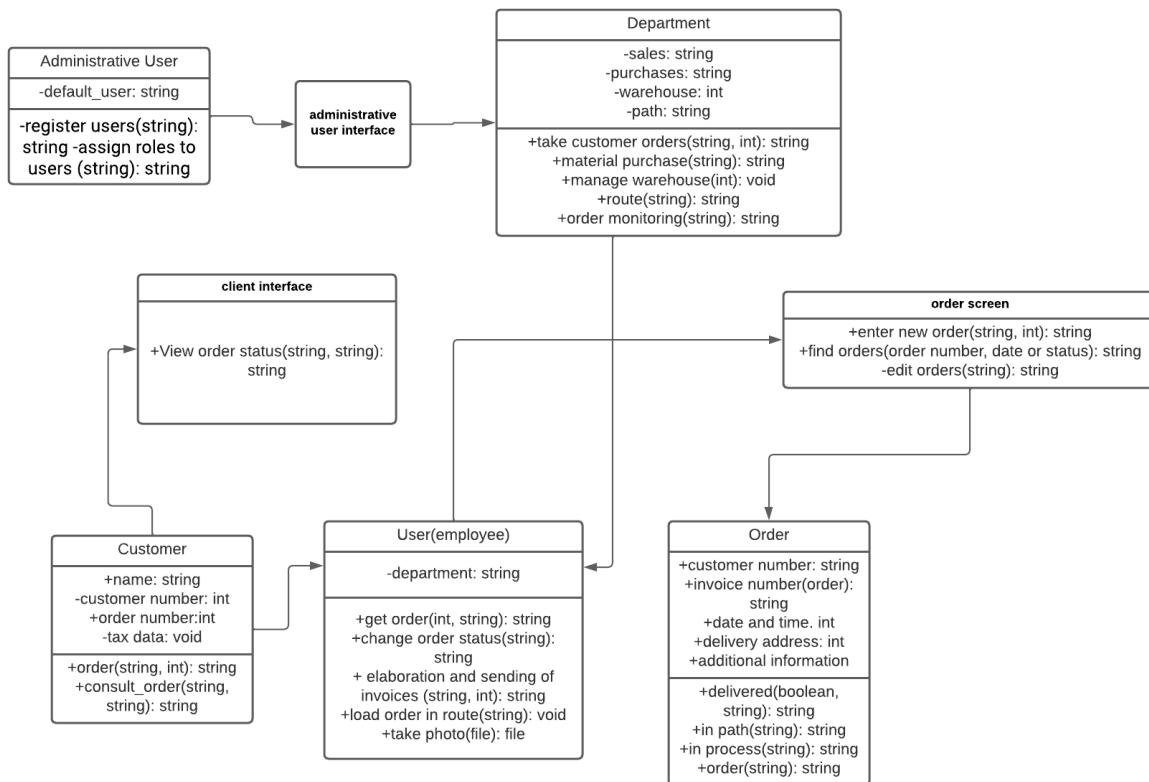
**viewMockups** [4 branches](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is 6 commits ahead of main. [Contribute](#)

**adriaanSM02** Add files via upload [b003dc9](#) 35 minutes ago [7 commits](#)

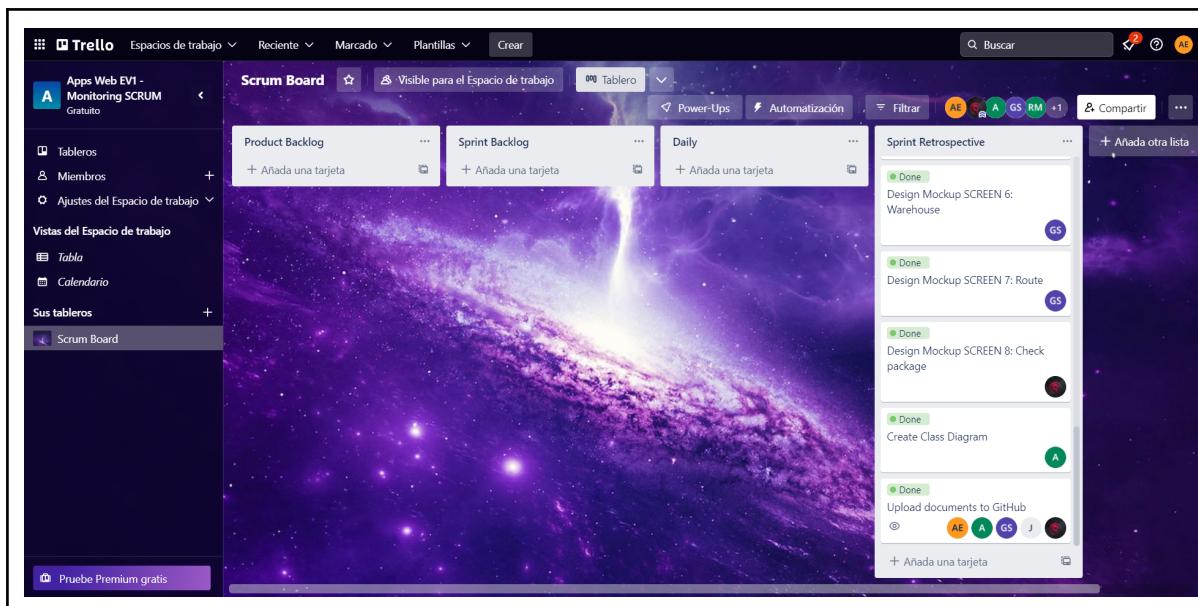
<a href="#">.gitignore</a>	Initial commit	3 days ago
<a href="#">README.md</a>	Initial commit	3 days ago
<a href="#">SCREEN_1_LOGIN.png</a>	Add files via upload	4 hours ago
<a href="#">SCREEN_2_SEARCH BAR.png</a>	Add files via upload	3 hours ago
<a href="#">SCREEN_3_SEARCH BAR RESULTS.png</a>	Add files via upload	3 hours ago
<a href="#">SCREEN_4 SALES.png</a>	Add files via upload	1 hour ago
<a href="#">SCREEN_5_PURCHASING MENU.png</a>	Add files via upload	1 hour ago
<a href="#">SCREEN_6_PURCHASING.png</a>	Add files via upload	35 minutes ago
<a href="#">SCREEN_7_WAREHOUSE.png</a>	Add files via upload	35 minutes ago
<a href="#">SCREEN_8_ROUTE.png</a>	Add files via upload	35 minutes ago
<a href="#">SCREEN_9_CHECK PACKAGE.png</a>	Add files via upload	35 minutes ago

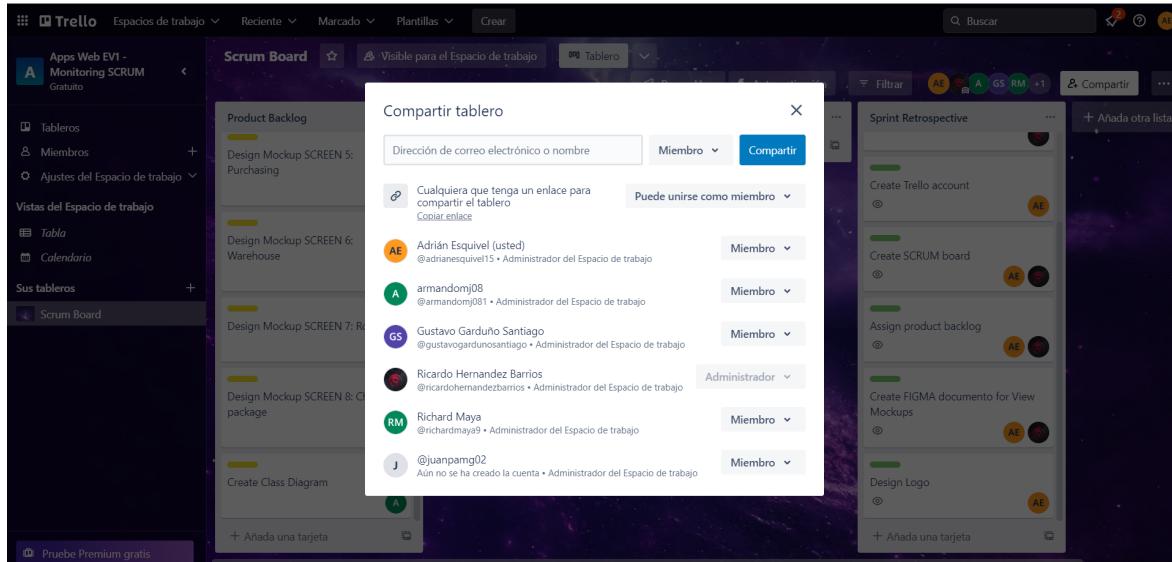
## Class Diagram



## SCRUM Board

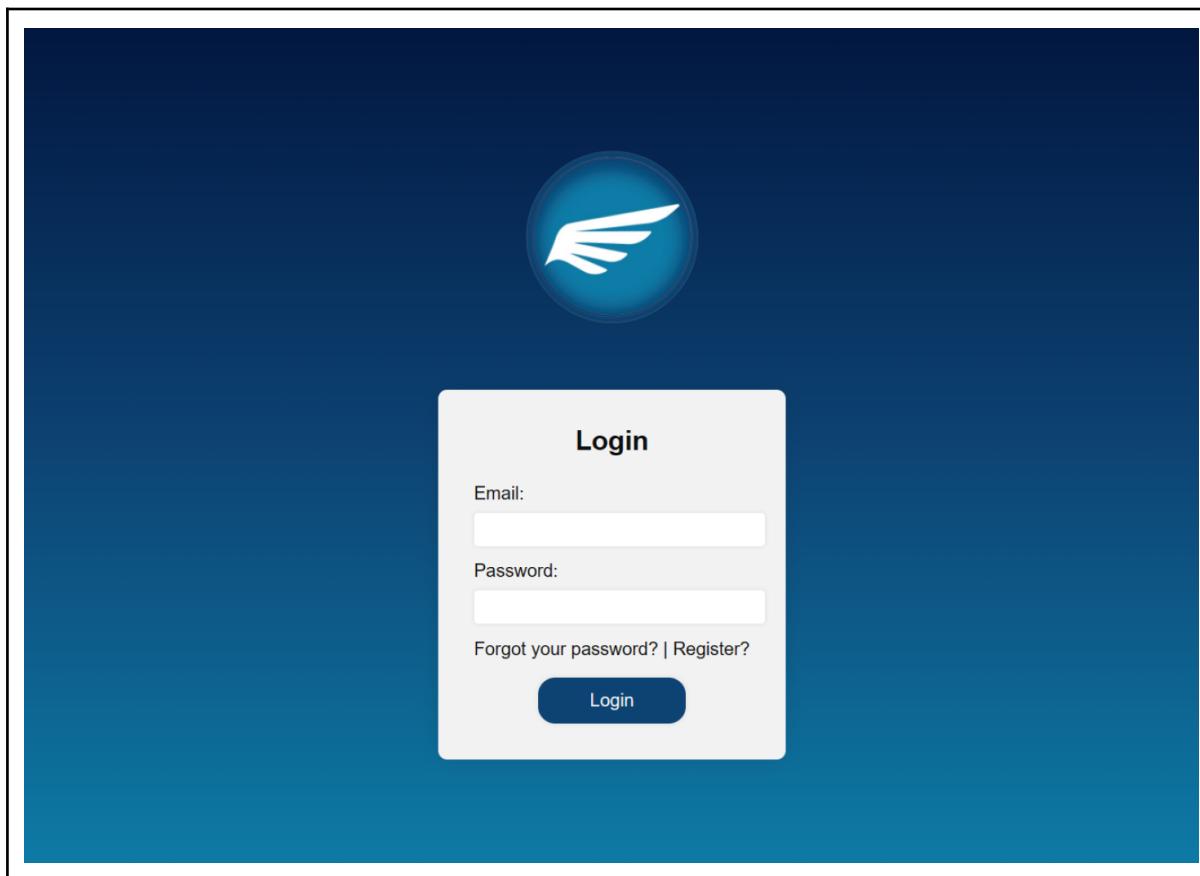
<https://trello.com/invite/b/5SLgJXiD/ATTI9f2bbd7f52bf41ef64257a2af07b>  
[fd5fE558BBE9/scrum-board](https://trello.com/b/fd5fE558BBE9/scrum-board)

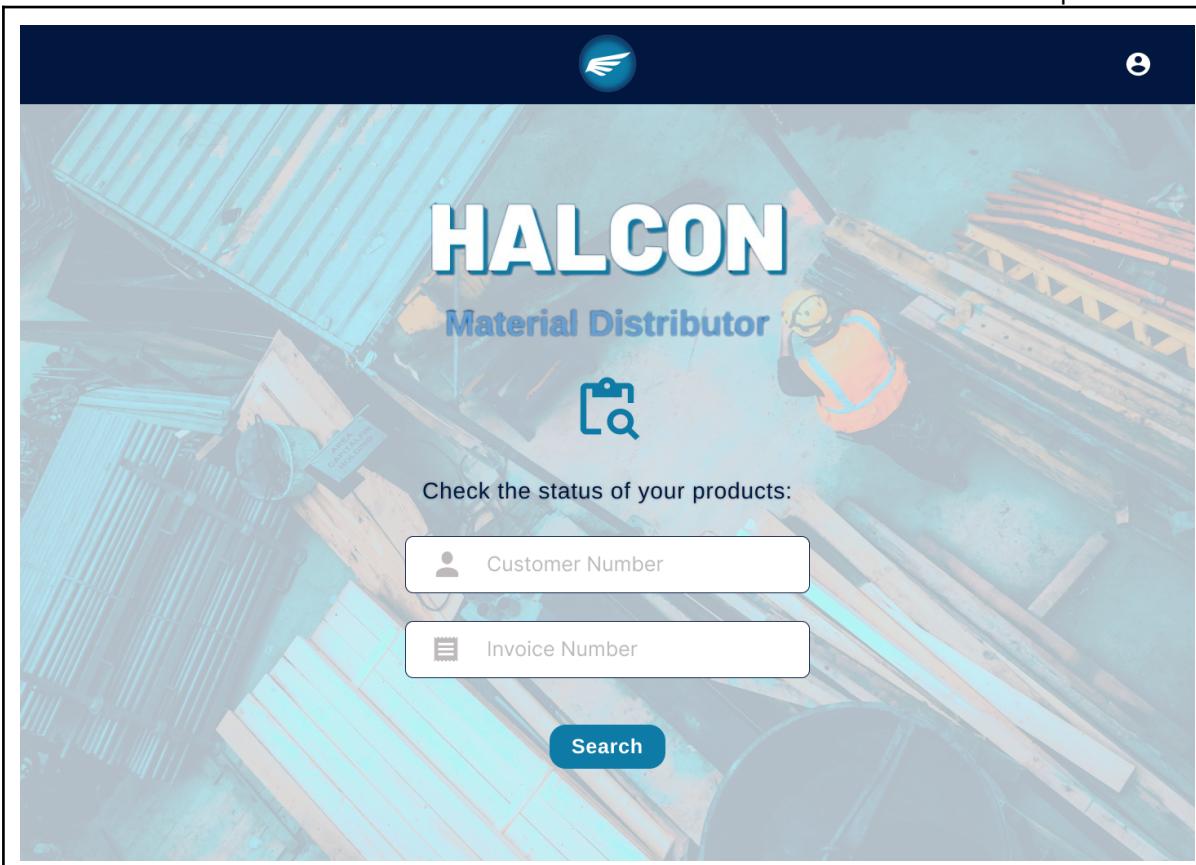




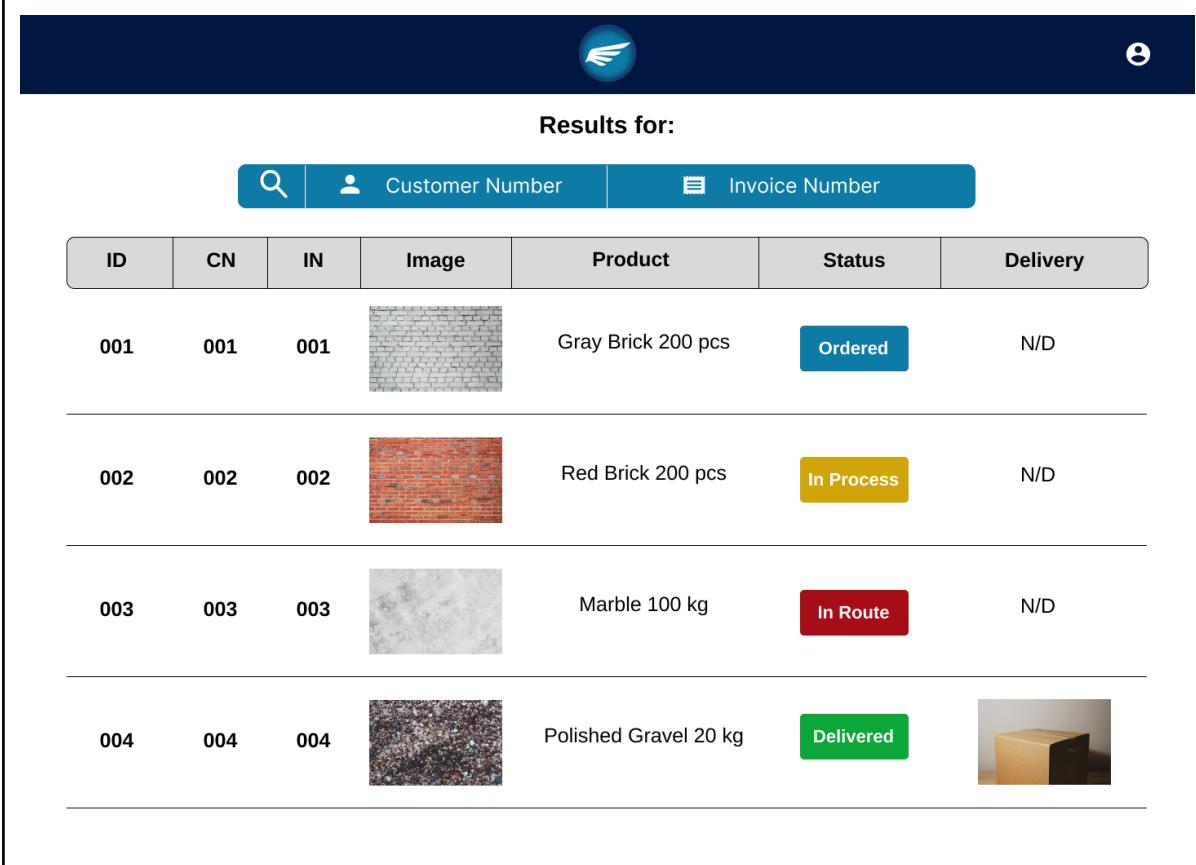
## VIEW MOCKUPS

<https://www.figma.com/file/hUIQlpLcd7GfxnzwL43sZT/View-Mockups?node-id=0%3A1&t=LZXUZHylHW0OgxWlb-1>





The image shows a mobile application interface for 'HALCON Material Distributor'. The background features a collage of construction materials like wooden planks, metal sheets, and pipes. At the top, there's a navigation bar with a logo and a user icon. The main title 'HALCON' is displayed in large, bold letters, with 'Material Distributor' below it. A magnifying glass icon is positioned next to the title. Below the title, a call-to-action says 'Check the status of your products:' followed by two input fields: 'Customer Number' and 'Invoice Number', each with its respective icon. A blue 'Search' button is located at the bottom of these fields.



The image shows the results page of the HALCON Material Distributor application. At the top, it says 'Results for:' followed by search filters for 'Customer Number' and 'Invoice Number'. Below this is a table with seven columns: ID, CN, IN, Image, Product, Status, and Delivery. There are four rows of data:

ID	CN	IN	Image	Product	Status	Delivery
001	001	001		Gray Brick 200 pcs	Ordered	N/D
002	002	002		Red Brick 200 pcs	In Process	N/D
003	003	003		Marble 100 kg	In Route	N/D
004	004	004		Polished Gravel 20 kg	Delivered	

SALES PURCHASING WAREHOUSE ROUTE CHECK PACKAGE
Search  Search

New Order:
Invoice Number
Number of Rows
Submit

Name or Company Name	Customer Number	Fiscal Data	Date Time	Delivery Address	Notes

1-3 / 3
<
>
↶
↷
📅
Cancel
Update

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SALES PURCHASING WAREHOUSE ROUTE CHECK PACKAGE
Search  Search

-25% OFF
ON PURCHASES
OVER \$3000

HOUSEHOLD MATERIALS
OFFERS
BINDING MATERIALS
INSULATING MATERIALS
BLOCKS
CEMENT



HOLLOW BLOCK  
20X20X15 CM  
**\$9.75 C/D**



TOLTEC  
CEMENT OF  
50 KG  
**\$250**



CONCRETE  
BLOCK 5  
INCHES  
**\$12.25 C/D**

BUY PRODUCT			
IMAGE	DESCRIPTION	CHARACTERISTICS	PRICE
			
<b>FISCAL DATA</b>			
<input type="text" value="Invoice Number"/>	<input type="text" value="Email"/>	<input type="button" value="&lt; 0 &gt;"/>	<input type="button" value="Pay"/>
BUY PRODUCT			
IMAGE	DESCRIPTION	CHARACTERISTICS	PRICE
			
<b>FISCAL DATA</b>			
<input type="text" value="Invoice Number"/>	<input type="text" value="Email"/>	<input type="button" value="&lt; 0 &gt;"/>	<input type="button" value="Pay"/>

**Order Number:**  
**80234-34351-23453342-32535**



**Update**

**Upload evidence of shipment:**

+  
Select Files To Upload  
or Drag and Drop, Copy and Paste Files

**Order Placed:**  
**January 20, 2020**

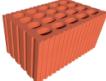


**Toltec Cement of 50 kg**  
The return window closed on Jan 15, 2022  
[buy again](#)

[Write a review about the product](#)

[Show Details](#)

**Order Placed:**  
**January 20, 2020**



**HOLLOW BLOCK 20X20X15 CM**  
The return window closed on Jan 15, 2022  
[buy again](#)

[Write a review about the product](#)

[Show Details](#)